

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID10333
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Human activity is the main reason of climate change that may causes global warming, heavy and low rainfall. This affects the crop growth and health. Rainfall analysis facilitates policy decisions regarding the cropping pattern, sowing date, construction of roads and providing drinking water to urban and rural areas.
2.	Idea / Solution description	<ul style="list-style-type: none"> Analysing the rainfall using previous years rainfall data. Using this we can forecast the rainfall in upcoming rainfall.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> Predict the Rainfall, Alert the farmer about climatic changes and rainfall level Using this rainfall analyse they can prepare for crop cultivation and they can protect their crops.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> Agriculture employed more than 50% of the Indian work force and contributed 17–18% to country's GDP. Agriculture provides employment to over 60% of the population. Reduce the poverty in society. Increase the income of farmers
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> Increases the food supply The share of agriculture in GDP increased to 19.9 per cent in 2020-21 from 17.8 per cent in 2019-2021 70% of Indian population are engaged in agriculture and raw material for the Industrial sectors
6.	Scalability of the Solution	Rainfall analysis helps the farmers to make them proper planning and pre-arrangement for water resources and increases the crop productivity and income of farmers.